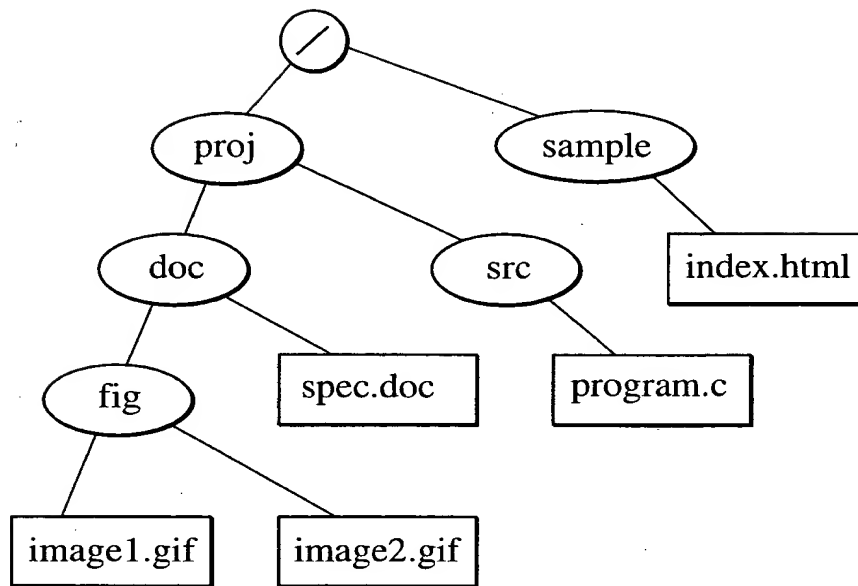
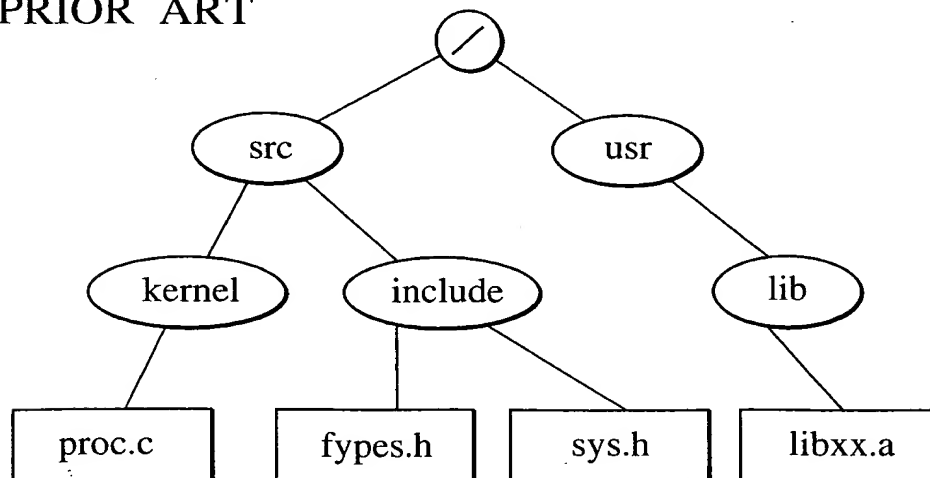


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**FIG. 1**  
PRIOR ART

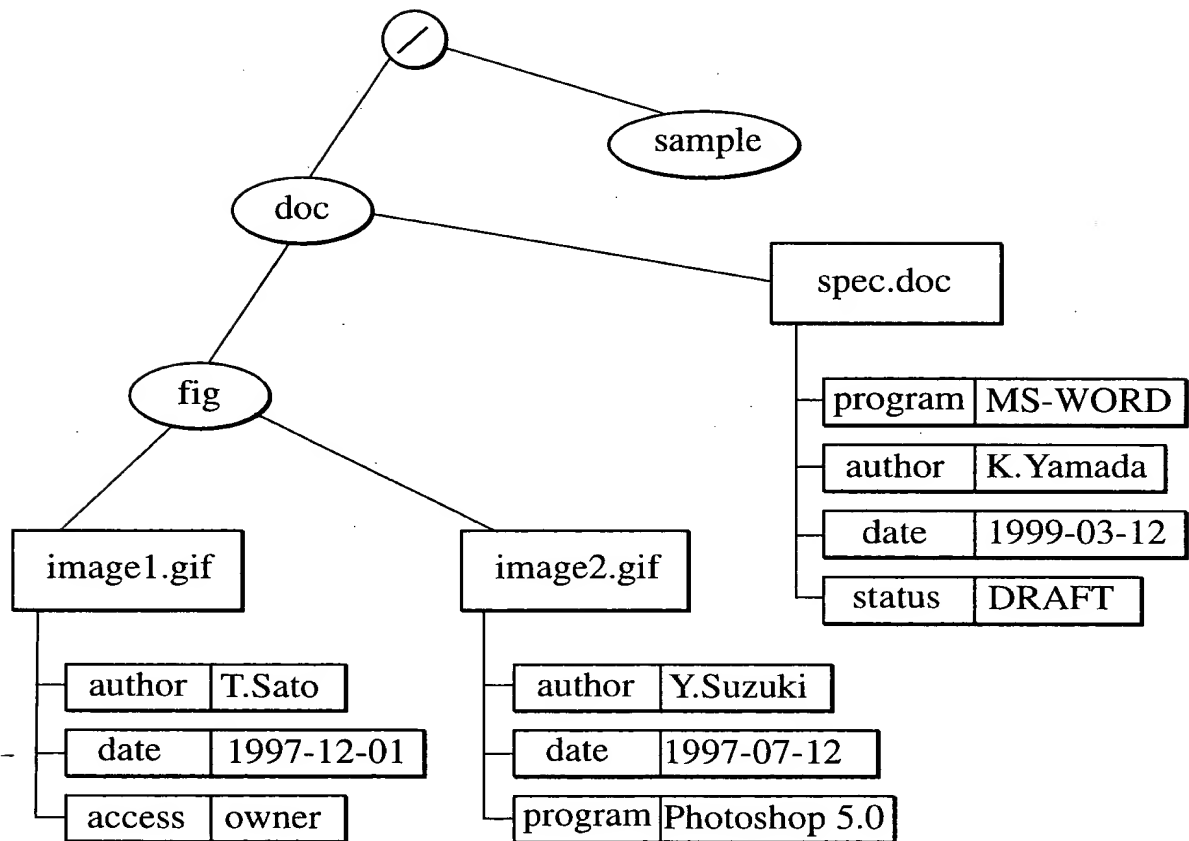


**FIG. 2**  
PRIOR ART



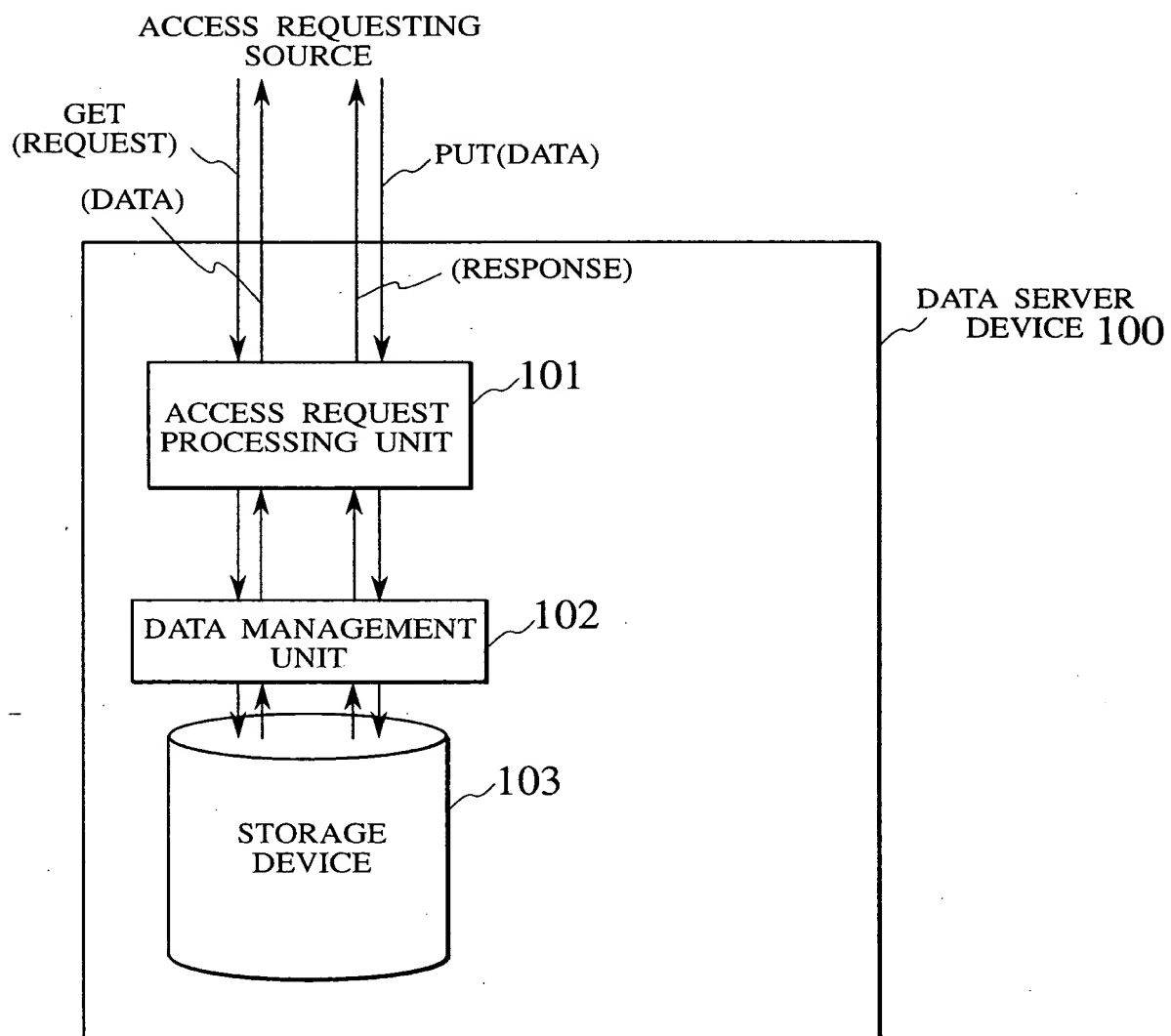
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FIG. 3  
PRIOR ART



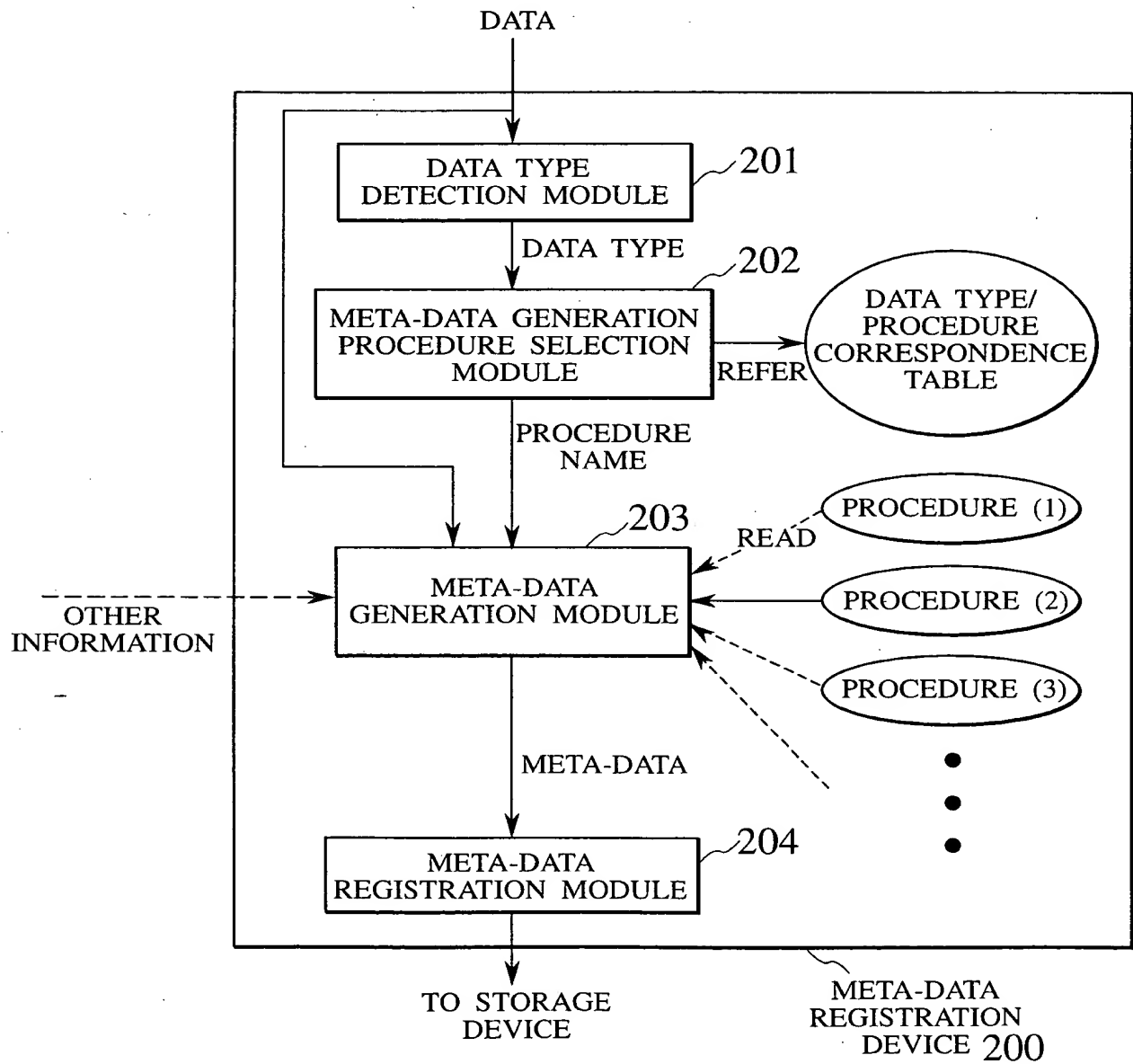
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FIG. 4



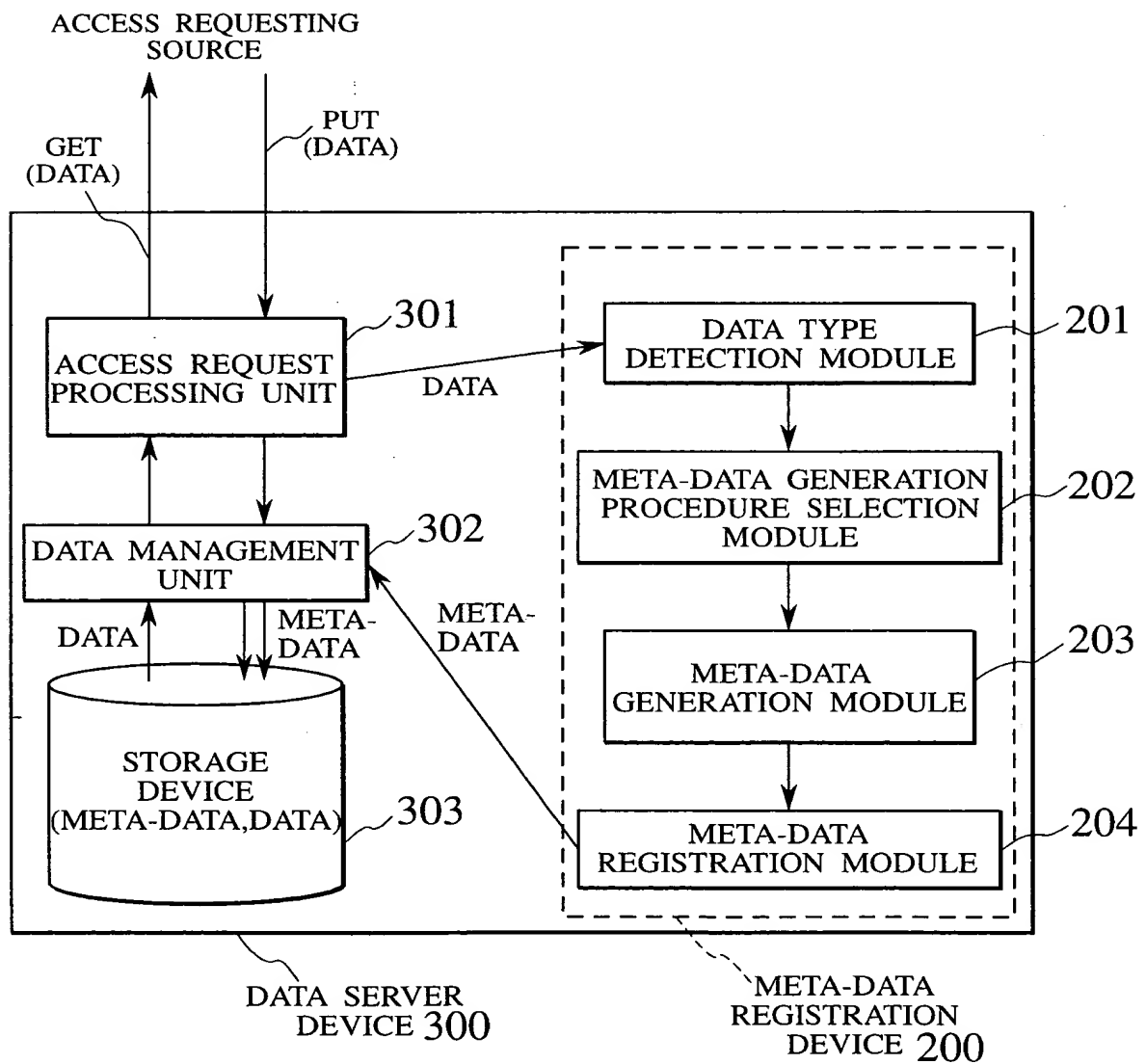
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FIG. 5



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FIG. 6



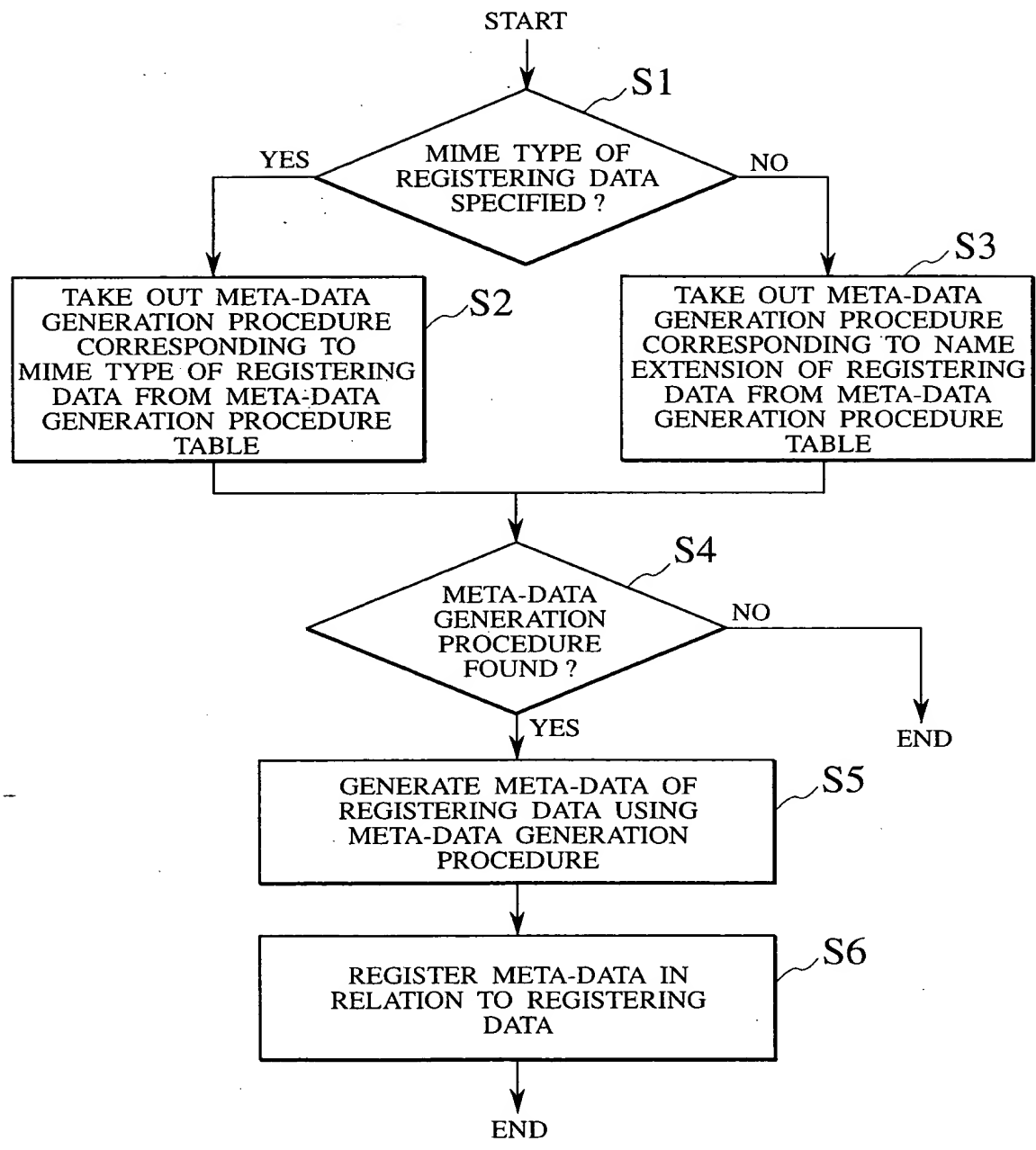
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FIG. 7

MIME TYPE	EXTENSION	META-DATA GENERATION PROCEDURE
application/msword	doc	metadoc
application/pdf	pdf	metapdf
image/jpeg	jpeg,jpg	metajpeg
image/tiff	tiff,tif	metatiff
video/x-msvideo	avi	metaavi
video/quicktime	qt,mov	metaqt
text/xml	xml	metaxml

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FIG. 8



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FIG. 9

date	1998-07-12
author	Y.Suzuki
program	photoshop 4.0

FIG. 10

```
<?xml version="1.0">
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<book>
  <title>Practical File System Design with the Be File System</title>
  <author>Domanic Giampaolo</author>
  <publisher>Morgan Kaufmann Publishers, Inc.</publisher>
  <isbn>1558604979</isbn>
  <date>November 1998</date>
  <price unit="USD">34.95</price>
  <page>237</page>
  <dimension unit="inch">0.62 x 8.97 x 7.04</dimension>
  <contents>
    <chapter num="1">Introduction to the BeOS and BFS</chapter>
    <chapter num="2">What Is a File System</chapter>
    <chapter num="3">Other File System</chapter>
    <chapter num="4">The Data Structures of BFS</chapter>
    <chapter num="5">Attributes, Indexing, and Queries</chapter>
    <chapter num="6">Allocation Policies</chapter>
    <chapter num="7">Journaling</chapter>
    <chapter num="8">The Disk Block Cache</chapter>
    <chapter num="9">File System Performance</chapter>
    <chapter num="10">The Vnode Layer</chapter>
    <chapter num="11">User-Level API</chapter>
    <chapter num="12">Testing</chapter>
    <chapter num="Appendix">A File System Construction Kit</chapter>
    <chapter>Bibliography</chapter>
    <chapter>Index</chapter>
  </contents>
  <keywords>BeOS. File System, Journaling, Index</keywords>
</book>
```



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FIG. 11

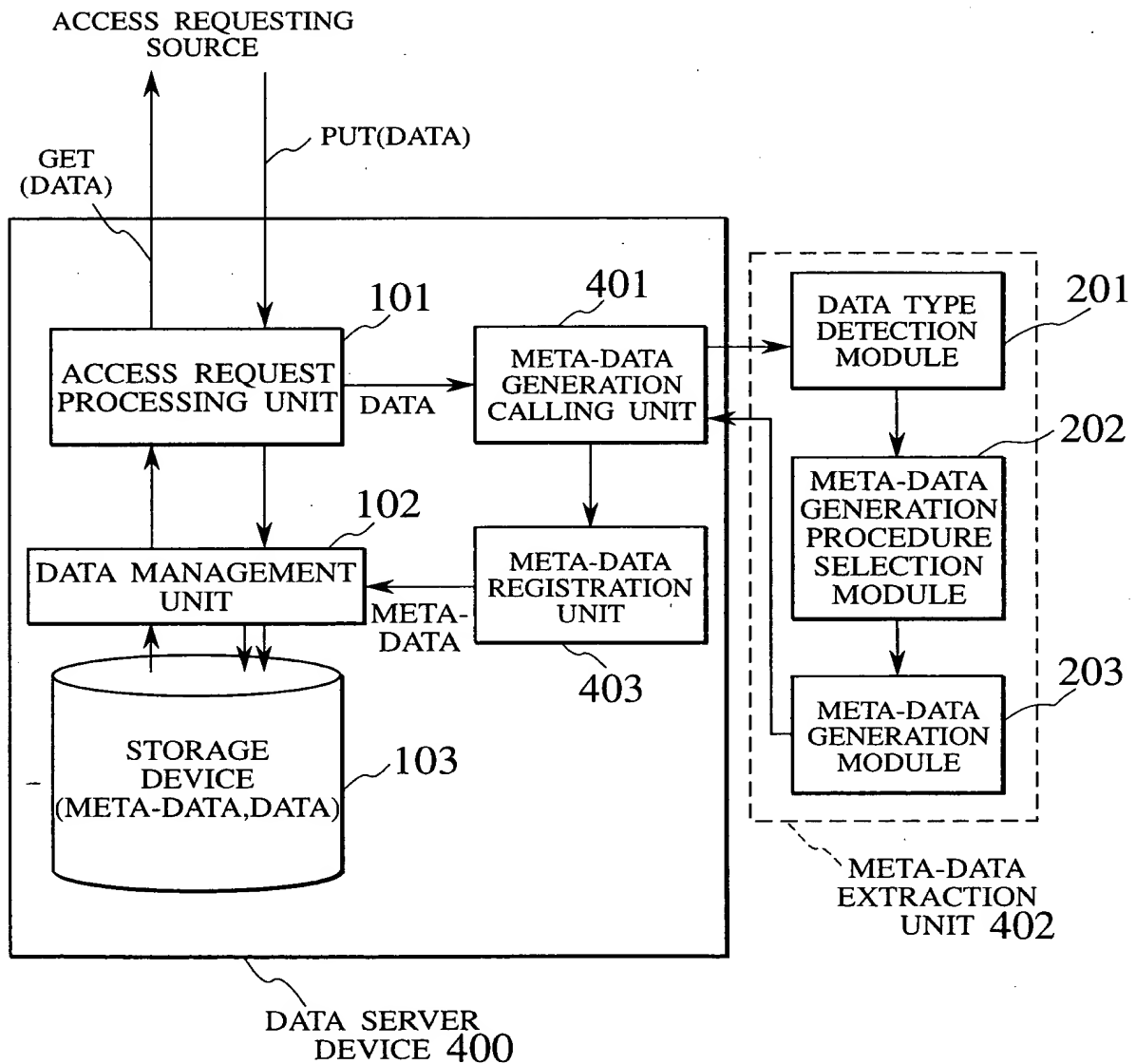
DTD NAME	ELEMENT NAME	META-DATA NAME
book.dtd	title	title
book.dtd	author	author
book.dtd	keywords	keyword
photo.dtd	title	title
photo.dtd	GPS info	location
photo.dtd	date	date
photo.dtd	creator	author
⋮	⋮	⋮

FIG. 12

title	Practical File System Design with the Be File System
author	Domanic Giampaolo
keyword	BeOS, File System, Journaling, Index

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FIG. 13



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FIG. 14

